



**US Army Corps
of Engineers®**

TEMPORARY ROOFING

Mission Estimating Guidelines
May, 2004

Estimating guidelines are provided as 'rules-of thumb' for developing initial estimates for the cost of roofing missions, scheduling, and rates of expenditure. Estimates for materials and labor in this guideline may be combined with current material and labor costs to develop a rough order of magnitude cost estimate. As the mission develops these guidelines should be checked against actual production rates and material usage to develop accurate cost and schedule breakdowns.

One Quality Assurance person can do 20 roofs per day at peak production. Ramp-up period is 10 days.

Roll of plastic is 20 ft by 100 ft = 2,000 sft per roll

2 houses can be roofed per roll of plastic

The following items are required for the installation of a temporary roof (typical installation as shown in the "Suggested Installation Instructions for Volunteers"):

Structural Panel (4' x 8' x 1/2") - 0.0808 SF/SF plastic installed.

Furring Strips - 0.38 LF/ SF Plastic installed.

Structural Lumber (2 x4, 2 x 6) - 0.1019 LF/SF plastic installed.

Nails (8D) - 0.002 Lbs/ SF plastic installed.

Example:

Say a house has 700 SF of plastic installed.

Quantities required are:

Structural panel :	56.6 SF (1.8 panels)
Furring Strip:	266 lineal feet
Structural lumber:	71.3 lineal feet
Nails -8D	1.4 Lbs